

Movement parameter determination system for in-line skating

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The determination system consists of a sensor system (3), an electronic signal processing and evaluation system (6) and a sensor signal transmitting stretch (4). The sensor system consists of at least one Reed contact (32) and at least one sensor magnet (31). The sensor magnet is so arranged in a roller (2), that with a revolution of the roller, the Reed contact (2) alters the switching position at least once. The moment of inertia of the roller, which contains the sensor magnet is increased by the arrangement of additional masses (21). The sensor system consists of two pulse transmitters, which are arranged at the skate shoe and one of which derives the pulse from the rotational movement of the roller, and the other pulse with floor contact of this roller with loading generated due to weight of the body.

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